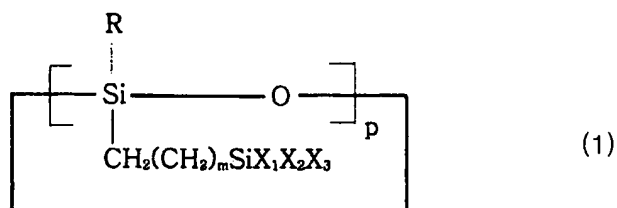


AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A siloxane-based resin prepared by hydrolyzing and polycondensing a cyclic siloxane compound of formula (1), together with a silane compound of formula (3) or by hydrolyzing and polycondensing the cyclic siloxane compound of formula (1) together with the silane compound of formula (3) and a silane compound of formula (4), in an organic solvent in the presence of a catalyst and water:



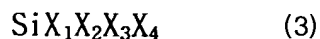
wherein,

R is H, C₁₋₃ alkyl, C₃₋₁₀ cycloalkyl, or C₆₋₁₅ aryl;

each of X₁, X₂, and X₃ is, independently, C₁₋₃ alkyl, C₁₋₁₀ alkoxy, or halogen, provided that at least one is alkoxy or halogen;

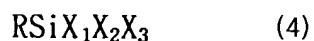
p is an integer from 3 to 8; and

m is an integer from 1 to 10;



wherein,

each of X₁, X₂, X₃, and X₄ is, independently, C₁₋₁₀ alkoxy, or halogen;



wherein,

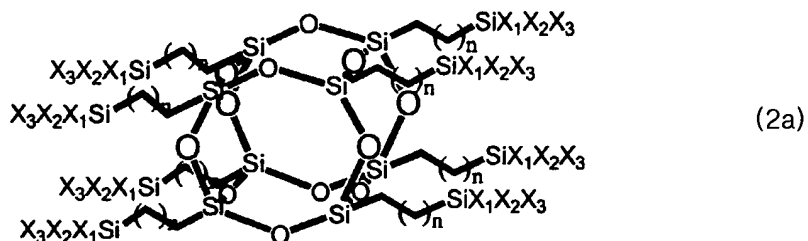
R is H, C₁₋₃ alkyl, C₃₋₁₀ cycloalkyl, or C₆₋₁₅ aryl; [[and]]

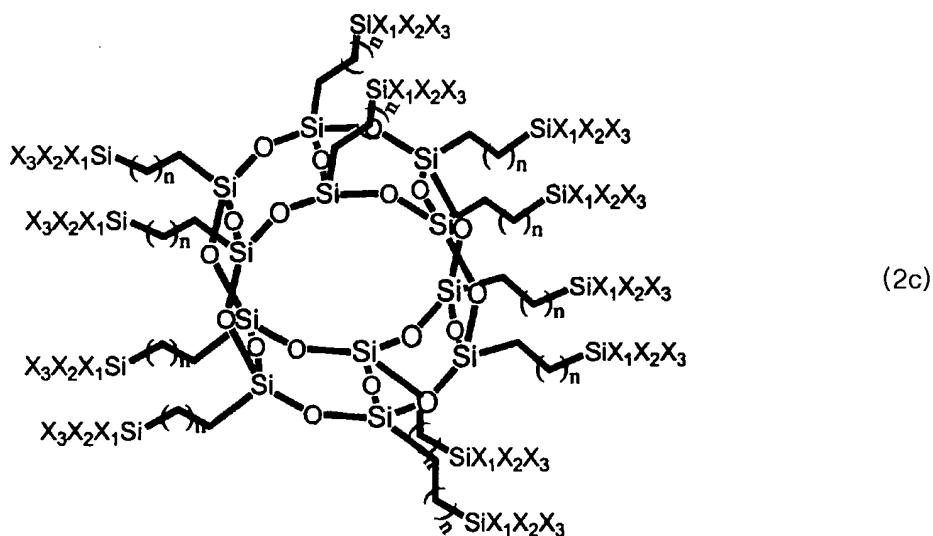
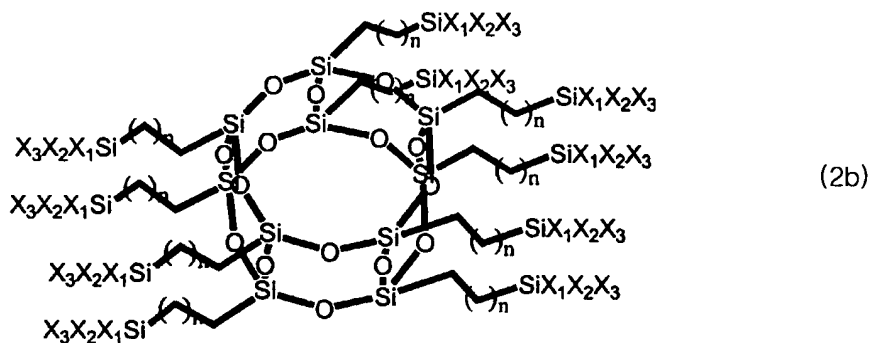
each of X₁, X₂, and X₃ is, independently, C₁₋₃ alkyl, C₁₋₁₀ alkoxy, or halogen, provided that at least one is alkoxy or halogen, and

wherein the resin has a molecular weight of 3,000 to 500,000.

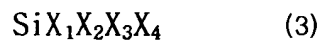
2. (Cancelled)

3. (Currently Amended) A siloxane-based resin prepared by hydrolyzing and polycondensing a cage-shape siloxane compound of any of formulas (2a) through (2c), together with a silane compound of formula (3) and/or a silane compound of formula (4), in an organic solvent in the presence of a catalyst and water:



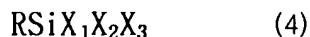


in the above formulas (2a) through (2c),
 each of X_1 , X_2 , and X_3 is, independently, C_{1-3} alkyl, C_{1-10} alkoxy, or
 halogen, provided that at least one is alkoxy or halogen; and
 n is an integer from 1 to 12;



wherein,

each of X_1 , X_2 , X_3 , and X_4 is, independently, C_{1-10} alkoxy, or halogen;



wherein,

R is H, C₁₋₃ alkyl, C₃₋₁₀ cycloalkyl, or C₆₋₁₅ aryl; and

each of X₁, X₂, and X₃ is, independently, C₁₋₃ alkyl, C₁₋₁₀ alkoxy, or [[halo]] halogen, provided that at least one is alkoxy or halogen.

4. (Previously Presented) The siloxane-based resin of claim 1, wherein a molar ratio of the compound of formula (1) to the compound of formula (3) is between 99.9:0.1 and 0.1:99.9.

5. (Previously Presented) The siloxane-based resin of claim 1, wherein a molar ratio of the compound of formula (1) to the compound of formula (3) is between 95:5 and 50:50.

6. (Previously Presented) The siloxane-based resin of claim 1, wherein the resin contains 1-98 mol% of the compound of formula (1), 1-98 mol% of the compound of formula (3) and 1-98 mol% of the compound of formula (4).

7. (Previously Presented) The siloxane-based resin of claim 3, wherein a molar ratio of the compound of formula (2a-2c) to the compound of formula (4) is between 99.9:0.1 and 0.1:99.9.

8. (Previously Presented) The siloxane-based resin of claim 3, wherein a molar ratio of the compound of formula (2a-2c) to the compound of formula (4) is between 5:95 and 50:50.

9. (Previously Presented) The siloxane-based resin of claim 3, wherein the resin contains 1-98 mol% of the compound of formula (2a-2c), 1-98 mol% of the compound of formula (3) and 1-98 mol% of the compound of formula (4).

10. (Cancelled)

11. (Previously Presented) The siloxane-based resin of claim 1, wherein the resin has a molecular weight of 3,000 to 100,000.

12. (Previously Presented) The siloxane-based resin of claim 3, wherein the resin has a molecular weight of 3,000 to 500,000.

13. (Previously Presented) The siloxane-based resin of claim 3, wherein the resin has a molecular weight of 3,000 to 100,000.